Sysia Project Times setterior for fruction abbroungsion: a coast const Me nort to find an approximation gent for an unknown function $g(x_i)$, from a set of input-output camples: where dexi) is consulted ph noise mi. me grow a pread barancherised from progest: in I, (x) are the regressors (we choose them manually) and O, the parameters (the algorithm will if ind them automatically.) We nort on opilistine: & change mayor is far the comber we pand \$(x1) = f(x1) + ... + f(x1) = 11 g (x2) = 6, (x3) + ... + 6, (x2) + - -15 3 (xn) = 4 (xn) 01+ ... + 6 cxn) 0 = 14 a en majes fan: dicks) ducks) for Andres

Line ducks) for Andres

Line ducks) for Andres

Line ducks

Line Notations: the will minist the once of Equard and before the two cities: WRE = 1 [3 (x:1 - 1:)] In Mattab et is easy: the parameter with & vivinizing the MSE is found by witting & - I I chark down. Once Die found like this them of can be applied to approximate of all any paint of approximate in the today. The compute: $\sqrt{q} = g(x) = \sum_{i=1}^{n} d_i(x_i) \cdot \theta_i = q^T(x_i) \cdot \theta_i \quad (Tellande for injury)$ To be sur that the stationic god, we'll generally compute the HE are differed, volutation lataret: { (xi, yi) | i= 1,... M of versus & visually).